

# Outline: Chapter One

## Scientific Method

- observation
- hypothesis
  - falsifiable
  - valid
- experiment
  - data
    - qualitative
    - quantitative
  - controls
- conclusion
- theory
- scientific law

## Matter

- physical states
  - gas
  - liquid
  - solid
    - crystalline
    - amorphous
  - plasma
- classification
  - pure substance
    - element
    - compound
  - mixture
    - homogeneous
    - heterogeneous